Appl. No. 10/804,065
Amendment dated March 6, 2006
Reply to Office Action of December 6, 2005

KAS-201

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

1. (Canceled)

2. (Currently Amended) A Ni-based superalloy ~~according to Claim 1,~~ having high oxidation resistance, the superalloy being hardened by dispersing γ' phases in a γ-phase matrix,

wherein the superalloy contains, by weight, C: 0.05 to 0.2%, B: 0.01 to 0.03%, Hf: 1.1 to 2.5%, Co: 9.7 to 15%, Ta: 0.1 to 4.5%, Cr: 1.5 to 9%, Mo: 0.01 to 0.9%, W: 5 to 14%, Ti: 0.1 to 4.75%, Al: 4 to 7%, Nb: 0.1 to less than 4%, Re: 0.01 to less than 9%, at least one of rare earth elements: 0 to less than 0.1% in total, and any of V, Zr and platinum group elements: not more than 0.005%.

3. (Original) A Ni-based superalloy according to Claim 2, wherein Ti is in the range of 0.1 to 0.45 percent by weight.

4-5. (Canceled)

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6. (Currently Amended) A Ni-based superalloy ~~according to Claim 1,~~ having

high oxidation resistance, the superalloy being hardened by dispersing γ' phases in a

γ-phase matrix,

wherein the superalloy contains, by weight, C: 0.01 to 0.5%, B: 0.01 to 0.03%,

Hf: 1.1 to 2.5%, Co: 9.7 to 15%, Ta: less than 8.5%, Cr: 1.5 to 16%, Mo: less than

1.0%, W: 5 to 14%, Ti: 0.1 to 4.75%, Al: 4 to 7%, Nb: less than 4%, Re: 0.01 to less

than 9%, at least one of platinum group elements: 0 to less than 0.5% in total, at

least one of rare earth elements: 0 to less than 0.1% in total, and any of V and Zr:

not more than 0.005%, and wherein a value obtained from a formula of (0.004 × W

content (weight%) + 0.004 × 2 × Mo content (weight%) + 0.004 × Re content

(weight%)) / (0.003 × 3 × Ti content (weight%) + 0.006 × Ta content (weight%) +

0.006 × 2 × Nb content (weight%)) is in the range of 1.0 to 2.5.

7. (Original) A Ni-based superalloy according to Claim 6, wherein the value

obtained from the formula of (0.004 × W content (weight%) + 0.004 × 2 × Mo content

(weight%) + 0.004 × Re content (weight%)) / (0.003 × 3 × Ti content (weight%) +

0.006 × Ta content (weight%) + 0.006 × 2 × Nb content (weight%)) is in the range of

1.5 to 2.0.

8-13. (Canceled)

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14. (Currently Amended) A Ni-based superalloy casting having high

oxidation resistance, wherein the superalloy according to Claim ~~13~~2 is cast by a

unidirectional solidifying process.

15-16. (Canceled)

17. (New) A Ni-based superalloy casting having high oxidation resistance,

wherein the superalloy according to Claim 6 is cast by a unidirectional solidifying

process.

18. (New) A gas turbine part made from the superalloy according to Claim 2.

19. (New) A gas turbine part made from the superalloy according to Claim 6.

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